

[illegible]

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      ||||| ||||| ||||| ||||| || || ||||| ||||| ||||| ||||| |||||
Db      2101 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG 2160
Qy      2161 AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAGC 2220
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      2161 AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCTTTTTACCACATCTGGAACGGCACC 2220
Qy      2221 CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTG 2280
      |||| ||| ||||| ||||| ||||| ||||| ||| | ||||| || |||||
Db      2221 CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG 2280
Qy      2281 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2340
      ||||| ||||| ||||| ||||| ||||| || || ||||| ||||| |||||
Db      2281 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC 2340
Qy      2341 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGGTC 2400
      ||||| ||||| ||||| ||||| || || ||||| ||||| |||||
Db      2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC 2400
Qy      2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2460
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db      2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAGATCATC 2460
Qy      2461 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2520
      |||| ||||| ||||| || ||||| ||||| || ||||| |||||
Db      2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT 2520
Qy      2521 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2580
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580
Qy      2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||
Db      2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640
Qy      2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
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Db      2641 GCCGGACTGGGCCAACAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTTGA 2697

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RESULT 2

US-09-306-902A-1

; Sequence 1, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

```

;          COUNTRY: USA
;          ZIP: 94104
;    COMPUTER READABLE FORM:
;          MEDIUM TYPE: Floppy disk
;          COMPUTER: IBM PC compatible
;          OPERATING SYSTEM: PC-DOS/MS-DOS
;          SOFTWARE: PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;          APPLICATION NUMBER: US/09/306,902A
;          FILING DATE: 07-May-1999
;          CLASSIFICATION: <Unknown>
;    ATTORNEY/AGENT INFORMATION:
;          NAME: OSMAN, RICHARD A
;          REGISTRATION NUMBER: 36,627
;          REFERENCE/DOCKET NUMBER: UC96-217
;    TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;    INFORMATION FOR SEQ ID NO: 1:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH: 3014 base pairs
;        TYPE: nucleic acid
;        STRANDEDNESS: double
;        TOPOLOGY: linear
;      MOLECULE TYPE: cDNA
;      SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-306-902A-1

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Query Match          83.5%;  Score 2252.2;  DB 3;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2419;  Conservative 0;  Mismatches 278;  Indels 0;  Gaps 0;

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Qy      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGGCTC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     61 CGCGGCTCGGGTGCCCGAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 120
        || || ||||||||||||||||||||||||||||||||||||||||||||
Db     61 CGTGGTTTCGGGTGCCCGAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCC 120

Qy    121 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy    181 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 240
        ||| || | |||||||||||| |||| |||| ||||||||||||||||||||
Db    181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy    241 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 300
        ||||| |||||||| || ||||| || || |||||||| ||| | ||||| || ||||
Db    241 TGGGTCCGCCAGGTCGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy    301 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTGGAG 360
        |||||||||||||| || || || || |||||||||||| ||||| ||||| |||||||
Db    301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy    361 GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 420

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Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420	
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480	
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480	
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540	
Db	481	TCCTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG	540	
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600	
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600	
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	660	
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660	
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTCATCGTCTAC	720	
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTGATTGTTTAT	720	
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780	
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780	
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840	
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840	
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900	
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTAGGATGGGAGC	900	
Qy	901	TGGAGCCCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960	
Db	901	TGGAGTTCGTGGAGTAAGTGGTGGCCTGTGGGCTTGGACTGCACCCACTGGCGGAGCCGC	960	
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020	
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020	
Qy	1021	ACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080	
Db	1021	ACCCGCAACTGTACCAAGTACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080	
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATC	1140	
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGGA	1140	
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200	
Db	1141	CTCATTTACTGTGCGAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200	
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260	

Db	1201	ACCTCGGGCTTCCAGCCTGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261		
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321		
Db	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381		
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441		
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501		
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561		
Db	1561	ATACCCCGGATGCCATACCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621		
Db	1621	CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCTGCTCACC CGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681		
Db	1681	TGTGGGCCCCCAGGAGTCTGCTCACC CGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741		
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801		
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861		
Db	1861	GCCGGGGCCTGCTATGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921		
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981		
Db	1981	TCCCTTGAGTACAACATCCGAGTGACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2041		
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100


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;      CITY:  SAN FRANCISCO
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94104
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/808,982
;      FILING DATE:
;      CLASSIFICATION:  530
;      ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC96-217
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 343-4341
;      TELEFAX:  (415) 343-4342
;      INFORMATION FOR SEQ ID NO:  2:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH:  1787 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;      MOLECULE TYPE:  cDNA
US-08-808-982-2

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Query Match          57.6%;  Score 1552.4;  DB 2;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1651;  Conservative  0;  Mismatches  16;  Indels  9;  Gaps  8;

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Qy      1025  GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1084
          ||||||||||||||||||||| ||||| |||||||||||||||||||||||||
Db      1    GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1085  ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 1144
          ||||||||||||||||||||| |||||||||||||||||||||||||||
Db      60    ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 119

Qy      1145  TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
          ||||||||||||||||||||| |||||||||||||||||||||||||
Db      120    TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1205  CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1263
          ||||||||||||||||||||| |||||||||||||||||||||||||
Db      180    CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1264  ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1323
          ||||||||||||||||||||| |||||||||||||||||||||||||
Db      240    ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1324  GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1383
          ||||||||||||||||||||| |||||||||||||||||||||||||
Db      300    GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

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Qy	1384	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1443
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1444	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1503
Db	420	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1504	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1563
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCG	1623
Db	540	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1803
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACCTT	2103
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACCT-	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2163
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283

Db	1195		CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTTCAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284		TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2343
Db	1255		TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2344		ATCACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403
Db	1315		ATCACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2404		GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCCTCATTCGGCAGAAGATAATTTCC	2463
Db	1375		GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCCTCATTCGGCAGAAGATAATTTCC	1434
Qy	2464		AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2523
Db	1435		AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2524		CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2583
Db	1495		CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2584		CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2643
Db	1555		CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2644		GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1615		GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1670

RESULT 4

US-09-306-902A-2

; Sequence 2, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

```

; APPLICATION NUMBER: US/09/306,902A
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-306-902A-2

```

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Query Match          57.6%; Score 1552.4; DB 3; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1651; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

```

```

Qy      1025 GCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1084
          ||||||||||||||||||| ||||| |||||||||||||||||||
Db        1 GCAACTGTACCACTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1085 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1144
          ||||||||||||||||||| |||||||||||||||||||
Db        60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1145 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
          ||||||||||||||||||| |||||||||||||||||||
Db        120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1205 CAGGCTTCCAGCCCGTCAGCATC-AAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 1263
          ||||||||||||||||||| |||||||||||||||||||
Db        180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 239

Qy      1264 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1323
          ||||||||||||||||||| |||||||||||||||||||
Db        240 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1324 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1383
          ||||||||||||||||||| |||||||||||||||||||
Db        300 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1384 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1443
          ||||||||||||||||||| |||||||||||||||||||
Db        360 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1444 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1503
          ||||||||||||||||||| |||||||||||||||||||
Db        420 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1504 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1563

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Db	480	 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1623
Db	540	 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	 GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGGAG	1803
Db	720	 CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	 GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCACCTTC	2103
Db	1018	 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCACCTTC	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2163
Db	1077	 AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	 AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283
Db	1195	 CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAACTTCAAC	2343
Db	1255	 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAACTTCAAC	1314
Qy	2344	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403

Db 1315 ATCACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 1374
 Qy 2404 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCC 2463
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1375 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCC 1434
 Qy 2464 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTCCAC 2523
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1435 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTCCAC 1494
 Qy 2524 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 2583
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1495 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 1554
 Qy 2584 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 2643
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1555 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 1614
 Qy 2644 GGA CTGGCCAGCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA 2697
 || ||||| |||| ||| || ||||||| ||||||||||||||||
 Db 1615 GGGACTGGCCAGCAGGACGGTGGCTTCTTTCACAGTGTTTCGGAGGCTGAGTGCTGA 1670

RESULT 5

US-08-808-982-3

; Sequence 3, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

; APPLICANT: Hink, Lindsay

; APPLICANT: Masu, Masayuki

; APPLICANT: Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/808,982

; FILING DATE:

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627

; REFERENCE/DOCKET NUMBER: UC96-217

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 343-4341

; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-3

Query Match 31.2%; Score 841.4; DB 2; Length 2831;
Best Local Similarity 60.0%; Pred. No. 8.4e-182;
Matches 1638; Conservative 0; Mismatches 961; Indels 130; Gaps 9;

Qy	98	ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCAGGATG	157
Db	104	ACTCCTTCCCATCAGCACCCGCGGAGCAGCTGCCTCACTTCCTGCTGGAACCAGAGGATG	163
Qy	158	TGTACATCGTCAAGAACAAGCCAGTGTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA	217
Db	164	CCTACATCGTAAAGAACAAGCCAGTGGAAATGCACTGCCGAGCCTTCCCTGCCACACAGA	223
Qy	218	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	277
Db	224	TCTACTTCAAGTGTAATGGCGAGTGGGTAGCCAGAAAGGCCACGTACGCAGGAGAGCC	283
Qy	278	CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	337
Db	284	TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG	343
Qy	338	TCGAGAAGGTGTTGCGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	397
Db	344	TGGAGGAACCTTTTGGGCTCGAGGACTACTGGTGTGAGTGCCTGGGCTGGAGCTCTTCGG	403
Qy	398	GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	457
Db	404	GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCTACTTGCGCAAGAACTTTGACC	463
Qy	458	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	517
Db	464	AGGAGCCTCTGGCGAAGGAGGTACCTTGGATCATGAGGTCTTCTGCAGTGCCGCCCAC	523
Qy	518	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	577
Db	524	CAGAGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG	583
Qy	578	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCAGAGGCCCGCC	637
Db	584	CTCAGGACACTAATTCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC	643
Qy	638	TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAATCGTGGCACGTCGCCGAGCG	697
Db	644	TCTCAGACACAGCCAACCTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGAGCA	703
Qy	698	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCAGCTGGACCGAGTGGTCCG	757
Db	704	CGACGGCCACAGTCATCGTCTATGTGAACGGAGGTGGTCCAGCTGGGCAGAATGGTCAC	763

Qy	758	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	817
Db	764	CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG	823
Qy	818	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	877
Db	824	CCCCACTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA	883
Qy	878	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGG	937
Db	884	CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG	943
Qy	938	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	997
Db	944	AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACCGCCGCCCCAGAACGGAGGCCGTG	1003
Qy	998	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1057
Db	1004	ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGCTGAATC	1063
Qy	1058	CTTCTGGCC-----CTGAGGACGTGGCCCTCT	1084
Db	1064	AGAGAACTCTAAACGACCCTAAAGCCGCCCCCTGGAGCCGTTCGGGAGACGTGGCGCTGT	1123
Qy	1085	ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTTGTCTCATCC	1141
Db	1124	ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTCTGGCAGTTCTCATGGCTGTAGGAGTGA	1183
Qy	1142	TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C	1198
Db	1184	TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCC	1243
Qy	1199	TCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGC	1258
Db	1244	TCACTGGTGGTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAAACCCACAGCTCC	1303
Qy	1259	T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT	1312
Db	1304	TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGCTGGCATCTACCGCGGACCTGTGT	1363
Qy	1313	GTCCCCGGCAGGA-----TG	1327
Db	1364	ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTACCCCTTCTGGATCCCT	1423
Qy	1328	GGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG	1378
Db	1424	TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG	1483
Qy	1379	GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT	1438
Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATACCCAGGCGATTCTCCC	1543
Qy	1439	CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1471
Db	1544	GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGGTTCCAGCACCTCCTGGGCC	1603

Qy	1472	TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGA	1531
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTCACTGGCACCTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1532	TGATCCCTAATACAGGTATCAGCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA	1591
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT	1723
Qy	1592	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCT	1651
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCCTTTCCGAAGGTT	1783
Qy	1652	GTCAGACCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCCTGGCGTCTGCTCACCCGGC	1711
Db	1784	CCCAGACAGTATTGAGCCCCCTCGGTGACCTGCGGGCCCCACGGGCCTCCTCCTGTGCCGCC	1843
Qy	1712	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCC	1771
Db	1844	CTGTTGTCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC	1903
Qy	1772	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1831
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1832	CCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGC	1891
Db	1964	TGAACACCCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1892	TGGGCCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1951
Db	2024	TGGGTACCTACGTGTTACGGGCGAGTCCTACTCCCGCTCCGAGTCAAGCGGCTCCAGC	2083
Qy	1952	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2011
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2012	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2071
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGGTCCTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2072	AGCTGATCCAGGAGCCACGGGTCTTGCACCTTCAAGGACAGTTACCACAACCTGCGCCTAT	2131
Db	2204	ACTTGGTGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2132	CCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGA	2191
Db	2263	CCCTCCATGACATCCCCCATGCCCACTGGAGGAGCAAATACTGGCCAAGTACCAGGAGA	2322
Qy	2192	TCCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACCTGCACCTTACCCTGG	2251
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACTGCACTTTACCCTGG	2382
Qy	2252	AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG	2311
Db	2383	AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG	2442
Qy	2312	GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG	2368

Db	2443	GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG	2502
Qy	2369	AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA	2428
Db	2503	ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA	2562
Qy	2429	AGATCCCCTTCCTCATTGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG	2488
Db	2563	AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG	2622
Qy	2489	GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG	2548
Db	2623	GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAACACTTTCG	2682
Qy	2549	CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA	2608
Db	2683	CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG	2742
Qy	2609	ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC	2668
Db	2743	ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG	2802
Qy	2669	TCTTCACAGTGTCTGGAGGCTGAGTGCTGA	2697
Db	2803	TAGCCATGACCACTGATGGCGATTGCTGA	2831

RESULT 6

US-09-306-902A-3

; Sequence 3, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

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; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/306,902A

; FILING DATE: 07-May-1999

; CLASSIFICATION: <Unknown>

; ATTORNEY/AGENT INFORMATION:


```

;          NAME: OSMAN, RICHARD A
;          REGISTRATION NUMBER: 36,627
;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 3:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 2831 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-902A-3

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Query Match          31.2%;  Score 841.4;  DB 3;  Length 2831;
Best Local Similarity 60.0%;  Pred. No. 8.4e-182;
Matches 1638;  Conservative 0;  Mismatches 961;  Indels 130;  Gaps 9;

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Qy      98 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 157
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Db      104 ACTCCTTCCCATCAGCACCCGCGGAGCAGCTGCCTCACTTCCTGCTGGAACCAGAGGATG 163

Qy      158 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 217
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      164 CCTACATCGTAAAGAACAAGCCAGTGGAATTGCACTGCCGAGCCTTCCCTGCCACACAGA 223

Qy      218 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 277
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Db      224 TCTACTTCAAGTGTAATGGCGAGTGGGTTAGCCAGAAAGGCCACGTACGCAGGAGAGCC 283

Qy      278 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 337
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Db      284 TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG 343

Qy      338 TCGAGAAGGTGTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 397
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      344 TGGAGGAACCTTTTGGGCTCGAGGACTACTGGTGTGAGTGCGTGGCCTGGAGCTCTTCGG 403

Qy      398 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 457
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      404 GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCCTACTTGCGCAAGAACTTTGACC 463

Qy      458 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 517
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      464 AGGAGCCTCTGGCGAAGGAGGTACCCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCAC 523

Qy      518 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 577
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      524 CAGAGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG 583

Qy      578 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCAGACAGGCCCGCC 637
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      584 CTCAGGACACTAACTTCCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC 643

Qy      638 TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCG 697

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Db 644 TCTCAGACACAGCCAACCTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGGAGCA 703
 Qy 698 CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG 757
 Db 704 CGACGGCCACAGTCATCGTCTATGTGAACGGAGGTTGGTCCAGCTGGGCAGAATGGTCAC 763
 Qy 758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817
 Db 764 CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG 823
 Qy 818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 877
 Db 824 CCCCCTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA 883
 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGCCTGTGGGCTGG 937
 Db 884 CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG 943
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997
 Db 944 AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACCGCCGCCCGCAGAACGGAGGCCGTG 1003
 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1057
 Db 1004 ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGTGAATC 1063
 Qy 1058 CTTCTGGCC-----CTGAGGACGTGGCCCTCT 1084
 Db 1064 AGAGAACTCTAAACGACCCTAAAAGCCGCCCCCTGGAGCCGTCGGGAGACGTGGCGCTGT 1123
 Qy 1085 ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCC 1141
 Db 1124 ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA 1183
 Qy 1142 TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C 1198
 Db 1184 TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC 1243
 Qy 1199 TCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGC 1258
 Db 1244 TCACTGGTGGTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAACCCACAGCTCC 1303
 Qy 1259 T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCT 1312
 Db 1304 TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGCTGGCATCTACCGCGGACCTGTGT 1363
 Qy 1313 GTCCCCGGCAGGA-----TG 1327
 Db 1364 ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTCACCCCTTCTGGATCCCT 1423
 Qy 1328 GGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG 1378
 Db 1424 TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG 1483
 Qy 1379 GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT 1438

Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCCGGTACATAACCCAGGCATTTCCTCCC	1543
Qy	1439	CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1471
Db	1544	GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGTTGCCAGCACCTCCTGGGCC	1603
Qy	1472	TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGGCTGA	1531
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1532	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATAACCCGAGGGAAGA	1591
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCAGGGCAAGT	1723
Qy	1592	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCT	1651
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACTTTCGGAAGGTT	1783
Qy	1652	GTCAGACCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCACCCGGC	1711
Db	1784	CCCAGACAGTATTGAGCCCTCGGTGACCTGCGGGCCACGGGCTCCTCCTGTGCCGCC	1843
Qy	1712	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCC	1771
Db	1844	CTGTTGTCCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCAGC	1903
Qy	1772	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1831
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1832	CCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGC	1891
Db	1964	TGAACACCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1892	TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1951
Db	2024	TGGGTACCTACGTGTTACAGGGCGAGTCTACTCCCGCTCCGCAGTCAAGCGGCTCCAGC	2083
Qy	1952	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2011
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2012	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2071
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGGTCTTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2072	AGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT	2131
Db	2204	ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2132	CCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTCAGCTACCAGGAGA	2191
Db	2263	CCCTCCATGACATCCCCATGCCCACTGGAGGAGCAAATACTGGCCAAGTACCAGGAGA	2322
Qy	2192	TCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACTGCACCTTCACCCTGG	2251
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACTGCACCTTCACCCTGG	2382

Qy 2252 AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG 2311
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 Db 2383 AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG 2442
 Qy 2312 GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG 2368
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 Db 2443 GGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG 2502
 Qy 2369 AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA 2428
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 Db 2503 ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA 2562
 Qy 2429 AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG 2488
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 Db 2563 AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG 2622
 Qy 2489 GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG 2548
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 Db 2623 GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAAGTACTTCG 2682
 Qy 2549 CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA 2608
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 Db 2683 CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG 2742
 Qy 2609 ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC 2668
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 Db 2743 ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG 2802
 Qy 2669 TCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2697
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 Db 2803 TAGCCATGACCACTGATGGCGATTGCTGA 2831

RESULT 7

US-09-949-016-4794

; Sequence 4794, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 4794

; LENGTH: 3008

; TYPE: DNA

; ORGANISM: Human
US-09-949-016-4794

Query Match 30.9%; Score 833.6; DB 4; Length 3008;
Best Local Similarity 62.1%; Pred. No. 5.1e-180;
Matches 1435; Conservative 0; Mismatches 814; Indels 63; Gaps 5;

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Qy      440 TGC GCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCG 499
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Db      10 TACGGAAGACATTTGAGCAGGAACCCCTAGGAAAGGAAGTGTCTTTGGAACAGGAAGTCT 69

Qy      500 TGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACG 559
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      70 TACTCCAGTGTCTGACCACCTGAAGGGATCCCAGTGGCTGAGGTGGAATGGTTGAAAAATG 129

Qy      560 AGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGG 619
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      130 AAGACATAATTGATCCCGTTGAAGATCGGAATTTTTATATTACTATTGATCACAACCTCA 189

Qy      620 TGGTGC GACAGGCCCGCCTTGCTGACACGGCCAAC TACACCTGCGTGGCCAAGAACATCG 679
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      190 TCATAAAGCAGGCCCGACTCTCTGATACTGCAAATTACACCTGTGTTGCCAAAAACATTG 249

Qy      680 TGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTCGA 739
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      250 TTGCCAAGAGGAAAAGTACAAC TGCCACTGT CATAGTCTATGTCAACGGTGGCTGGTCCA 309

Qy      740 CGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCC 799
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      310 CCTGGACGGAGTGGTCTGTGTGTAACAGCCGCTGTGGACGAGGGTATCAGAAACGTACAA 369

Qy      800 GGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCC 859
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      370 GGACTTGTACCAACCCGGCACC ACTCAATGGGGGTGCCTTCTGTGAAGGGCAGAGTGTGC 429

Qy      860 AGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGT 919
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      430 AGAAAATAGCCTGTACTACGTTATGCCAGTGGATGGCAGGTGGACGCCATGGAGCAAGT 489

Qy      920 GGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCAC 979
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      490 GGTCTACTTGTGGAAC TGA TGCACCCACTGGCGCAGGAGGGAGTGCACGGCGCCAGCCC 549

Qy      980 CCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAAGTG 1039
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      550 CCAAGAATGGAGGCAAGGACTGCGACGGCCTCGTCTTGCAATCCAAGAACTGCACTGATG 609

Qy      1040 ACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGG---CCTCA 1096
          | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      610 GGCTTTGCATGCAGACTGCTCCTGATT CAGATGATGTTGCTCTCTATGTTGGGATTGTGA 669

Qy      1097 TCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTTTATTGCCGGA 1156
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Db      670 TAGCAGTGATCGTTTGCCTGGCGATCTCTGTAGTTGTGGCCTTGTTTGTGTATCGGAAGA 729

Qy      1157 AGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAGC 1216
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Db	730	ATCATCGTGACTTTGAGTCAGATATTATTGACTCTTTCGGCACTCAATGGGGGGCTTTACAGC	789
Qy	1217	CCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGACC	1276
Db	790	CTGTGAACATCAAG-----GCAGCAAGACAAGATCTGCTGGCTGTACCCCCAGACC	840
Qy	1277	TCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATG-----GGCC	1331
Db	841	TCACGTCACTGTCAGCCATGTACAGAGGACCTGTCTATGCCCTGCATGACGTCTCAGACA	900
Qy	1332	CAGCCCCAAGTTCCAGCTACCAAT----GGGCACCTGCTCAGCCCCCTGGGTGGCGGCC	1387
Db	901	AAATCCCAATGACCAACTCTCCAATTCTGGATCCACTGCCAACCTGAAAATCAAAGTGT	960
Qy	1388	GCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCT	1447
Db	961	ACAACACCTCAGGTGCTGTCAACCCCCCCAAGATGACCTCTCTGAGTTTACGTCCAAGCTGT	1020
Qy	1448	CCACCCAGAATACTTCCGCTCCCTGCCCGAGGCACCAGCAACATGA-----	1495
Db	1021	CCCCTCAGATGACCCAGTCGTTGTTGGAGAATGAAGCCCTCAGCCTGAAGAACCAGAGTC	1080
Qy	1496	-----CCTATGGGACCTTCAACTTCCTCGGGGGCC	1525
Db	1081	TAGCAAGGCAGACTGATCCATCCTGTACCGCATTTGGCAGCTTCAACTCGCTGGGAGGTC	1140
Qy	1526	GGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATAACCCGAG	1585
Db	1141	ACCTTATTGTTCCCAATTCAGGAGTCAGCTTGCTGATTCCCGCTGGGGCCATTCCCCAAG	1200
Qy	1586	GGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTTAG	1645
Db	1201	GGAGAGTCTACGAAATGTATGTGACTGTACACAGGAAAGAACTATGAGGCCACCCATGG	1260
Qy	1646	CTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCCTGCTCA	1705
Db	1261	ATGACTCTCAGACACTTTTGACCCCTGTGGTGAGCTGTGGGCCCCCAGGAGCTCTGCTCA	1320
Qy	1706	CCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCC	1765
Db	1321	CCCGCCAGTCGTCCTCACTATGCATCACTGCGCAGACCCCAATACCGAGGACTGGAAAA	1380
Qy	1766	TGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGG	1825
Db	1381	TACTGCTCAAGAACCAGGCAGCACAGGGACAGTGGGAGGATGTGGTGGTGGTGGGGAGG	1440
Qy	1826	AGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCG	1885
Db	1441	AAAACCTCACCACCCCTGCTACATTGAGCTGGATGCAGAGGCCTGCCACATCCTCACAG	1500
Qy	1886	AGCAGCTGGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCC	1945
Db	1501	AGAACCTCAGCACCTACGCCCTGGTAGGACATTCCACCACCAAGCGGCTGCGAAGCGCC	1560
Qy	1946	TCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCT	2005
Db	1561	TCAAGCTGGCCATCTTTGGGCCCCCTGTGCTGCTCCTCGCTGGAGTACAGCATCCGAGTCT	1620

Qy 2006 ACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGG 2065
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 Db 1621 ACTGTCTGGATGACACCCAGGATGCCCTGAAGGAAATTTTACATCTTGAGAGACAGATGG 1680

Qy 2066 GGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGC 2125
 | ||||||| | | ||| || || ||| ||| ||| |||||||||
 Db 1681 GAGGACAGCTCCTAGAAGAACCTAAGGCTCTTCATTTTAAAGGCAGCACCCACAACCTGC 1740

Qy 2126 GCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACC 2185
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 Db 1741 GCCTGTCAATTCACGATATCGCCATTCCCTCTGGAAGAGCAAATTGCTGGCTAAATATC 1800

Qy 2186 AGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACTGCACCTTCA 2245
 |||| || || ||||| || | |||| ||| | || | || |||||||||
 Db 1801 AGGAAATTCATTTTACCATGTTTGGAGTGGATCTCAAAGAAACCTGCACTGCACCTTCA 1860

Qy 2246 CCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGG 2305
 | ||||| | | |||| | ||| || |||| ||||| ||| ||| |||||
 Db 1861 CTCTGGAAAGATTTAGCCTGAACACAGTGGAGCTGGTTTGCAAACCTCTGTGTGCGGCAGG 1920

Qy 2306 TGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGACACAAGGTTTG 2365
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 Db 1921 TGGAAGGAGAAGGGCAGATCTTCCAGCTCAACTGCACCGTGTGAGAGAACCTACTGGCA 1980

Qy 2366 CTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCT 2425
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 Db 1981 TCGATTTGCCGCTGCTGGATCCTGCGAACACCATCACACGGTCACGGGGCCCAGTGCCT 2040

Qy 2426 TCAAGATCCCCTTCTCTATTCCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGC 2485
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 Db 2041 TCAGCATCCCTCTCCCTATCCGGCAGAAGCTCTGTAGCAGCCTGGATGCCCCCAGACGA 2100

Qy 2486 GGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCT 2545
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 Db 2101 GAGGCCATGACTGGAGGATGCTGGCCCATAGCTGAACCTGGACAGGTACTTGAATTACT 2160

Qy 2546 TTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACCTCC 2605
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 Db 2161 TTGCCACCAAATCCAGCCCAACTGGCGTAATCCTGGATCTTTGGGAAGCACAGAACTTCC 2220

Qy 2606 CCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTG 2665
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 Db 2221 CAGATGGAAACCTGAGCATGCTGGCAGCTGTCTTGGGAAGAAATGGGAAGACATGAAACGG 2280

Qy 2666 GCCTCTTCACAGTGTGCGAGGCTGAGTGCTGA 2697
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 Db 2281 TGGTGTCTTTAGCAGCAGAAGGGCAGTATTAA 2312

RESULT 8

US-09-969-532-9

; Sequence 9, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756
 Qy 727 GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A 807
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846
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 Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC 906
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 Db 868 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAACCT 927
 Qy 907 CCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966
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 Db 928 CTTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC 987
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026
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 Db 988 TTGGGTGCTGCCGTCTGTGGCCGTTGCAGTCTGGTCATTGGTGTCAACCTTTACAGACGG 1047
 Qy 1027 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086
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 Db 1048 AGCCAGAGTGACTATGGCGTGGACGTCAATTGACTCTTCTGCATTGACAGGTGGCTTCCA- 1106
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCTCATCTCGTT 1146
 | ||| | | | | | | | | | | | | | | | |
 Db 1107 --GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAAC TAATGATACAA 1164
 Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206
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 Db 1165 GAAAAATCCTTTGGTAACCTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1224
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTCACCATC 1266
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 Db 1225 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCCTCTGGACAAGGAGCTCATGACA 1284
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326
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 Db 1285 GAGTCCTCACTCTTTAACCCCTTTGTGCGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATG 1344
 Qy 1327 GGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386
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 Db 1345 GTTTCCTTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1404
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446
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 Db 1405 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1464
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506
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 Db 1465 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAACTGAGGACAAC TGGTGTGTC 1515
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566
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 Db 1516 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1575

Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626
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 Db 1576 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1632

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686
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 Db 1633 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1692

Qy 1687 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746
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 Db 1693 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1752

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806
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 Db 1753 AGTTCTGAGCATTTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1812

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866
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 Db 1813 GTGATGTGAGTGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1866

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926
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 Db 1867 GCGTGTGATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1926

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986
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 Db 1927 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTG 1986

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046
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 Db 1987 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2046

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2047 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2106

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2107 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCTCTGGAGAATT 2166

Qy 2167 AAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2167 AAACCATTCACCTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2226

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286
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 Db 2227 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2286

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346
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 Db 2287 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2346

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406
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 Db 2347 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2406

Qy 2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATAATTTCCAGC 2466
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 Db 2407 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2466
 Qy 2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526
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 Db 2467 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2526
 Qy 2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
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 Db 2527 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2586
 Qy 2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2587 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2646
 Qy 2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2691
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 Db 2647 ATGGGAGGACACACAGAACTCTCAAACATTTCAGAATCCCAG 2691

RESULT 9

US-09-969-532-33

; Sequence 33, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232e1 Human Membrane Proteins and Polynucleotides
 Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 33

; LENGTH: 3411

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-33

Query Match 18.1%; Score 487; DB 4; Length 3411;

Best Local Similarity 50.9%; Pred. No. 4.4e-101;

Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

Qy 127 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 186
 | | | | | | | | | | | | | | | | | | | | | |
 Db 271 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 330
 Qy 187 CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 246
 | | | | | | | | | | | | | | | | | | | | | |
 Db 331 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 390
 Qy 247 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCAACATG 306
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Db	391	CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC	450
Qy	307	GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCTGGGCTGGAGGAATAC	366
Db	451	GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT	510
Qy	367	TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC	426
Db	511	TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG	570
Qy	427	CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG	486
Db	571	CGCATAGCCTATTTACGGAAGAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATT	630
Qy	487	GAGCAGGGCATCGTGCTGCCCTGCCCTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG	546
Db	631	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	690
Qy	547	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGG	606
Db	691	TGGCTGAAAAATGAAGAGCCCATGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	750
Qy	607	GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG	666
Db	751	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	810
Qy	667	GCCAAGAACATCGTGGCACGTCGCCGACGCGCTCCGCTGCTGTCATCGTCTACGTGAAC	726
Db	811	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCCGCCACTGTTGTGGTCTACGTGGAT	870
Qy	727	GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	786
Db	871	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A	921
Qy	787	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	846
Db	922	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA	981
Qy	847	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	906
Db	982	GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAACCT	1041
Qy	907	CCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	966
Db	1042	CTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC	1101
Qy	967	TCTGACCCAGCACCCTCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1026
Db	1102	TTGGGTGCTGCCGTCTGTGGCCGTTGCAGTCCTGGTCATTGGTGTCAACCTTTACAGACGG	1161
Qy	1027	AACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1086
Db	1162	AGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCA-	1220
Qy	1087	GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTT	1146
Db	1221	--GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAAGAATATCATGGAACATAATGATACAA	1278

Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206
 | | | | | | | | | | | | | | | |
 Db 1279 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1338
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266
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 Db 1339 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1398
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326
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 Db 1399 GAGTCCTCACTCTTTAACCCCTTTGTGCGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1458
 Qy 1327 GGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386
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 Db 1459 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1518
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446
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 Db 1519 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1578
 Qy 1447 TCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506
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 Db 1579 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1629
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566
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 Db 1630 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1689
 Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626
 | | | | | | | | | | | | | | | | | | | |
 Db 1690 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1746
 Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686
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 Db 1747 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1806
 Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746
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 Db 1807 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1866
 Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806
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 Db 1867 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1926
 Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866
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 Db 1927 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1980
 Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926
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 Db 1981 GCGTGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 2040
 Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986
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 Db 2041 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 2100


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; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 2703
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-11
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Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756
 Qy 727 GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846
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 Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 906
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 Db 868 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT 927
 Qy 907 CCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966
 | | | || | | || || || || || || || ||
 Db 928 GCCAGCGACATTGCTTTGTACTCGGGCTTGG-----GTGC 962
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026
 | | | | | ||| || | ||| || | |||
 Db 963 TGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTCAACCCTTTACAGACGGA----- 1015
 Qy 1027 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086
 | ||||| || || || | ||| | ||
 Db 1016 ----GCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTC 1071
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCTCGTT 1146
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 Db 1072 CAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAATAATGATACAA 1131
 Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206
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 Db 1132 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1191
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266
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 Db 1192 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1251
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326
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 Db 1252 GAGTCCTCACTCTTTAACCTTTGTGCGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1311
 Qy 1327 GGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386
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 Db 1312 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1371
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446
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 Db 1372 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1431
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506
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 Db 1432 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1482
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566
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 Db 1483 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1542

Qy 1567 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626
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 Db 1543 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1599

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686
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 Db 1600 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1659

Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746
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 Db 1660 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1719

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806
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 Db 1720 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1779

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866
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 Db 1780 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1833

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1834 GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1893

Qy 1927 GTGGCTGCCGCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1894 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1953

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046
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 Db 1954 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2013

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2014 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2073

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2074 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGTATATCCCCCATTCCTCTGGAGAATT 2133

Qy 2167 AAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2134 AAACCATTCACCTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2193

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286
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 Db 2194 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2253

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346
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 Db 2254 AAAATCTGCATTGGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2313

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406
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 Db 2314 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCTGCA 2373

Qy 2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATAATTTCCAGC 2466
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 Db 2374 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2433

Qy 2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526
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 Db 2434 TTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2493

Qy 2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
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 Db 2494 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCTATTTGAACCTG 2553

Qy 2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
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 Db 2554 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGAATCCCTGGCCTGTGCCCTTGAAGAG 2613

Qy 2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2691
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 Db 2614 ATGGGAGGACACACAGAACTCTCAAACATTTGAGAATCCCAG 2658

RESULT 11

US-09-969-532-13

; Sequence 13, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232e1 Human Membrane Proteins and Polynucleotides
 Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 13

; LENGTH: 2694

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-13

Query Match 17.1%; Score 460.2; DB 4; Length 2694;

Best Local Similarity 51.9%; Pred. No. 5.1e-95;

Matches 1330; Conservative 0; Mismatches 1163; Indels 72; Gaps 10;

Qy 127 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 186
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 Db 157 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy 187 CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTCAAGTGAACGGGGAGTGGGTG 246
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy 247 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 306
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Db 277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy 307 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCCGGGCTGGAGGAATAC 366
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Db 337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 396

Qy 367 TGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 426
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Db 397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy 427 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 486
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Db 457 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGAAGTTCCCATT 516

Qy 487 GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG 546
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Db 517 GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA 576

Qy 547 TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG 606
 |||| || || || || || || || || || || || || || || ||

Db 577 TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT 636

Qy 607 GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAATACACCTGCGTG 666
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Db 637 GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG 696

Qy 667 GCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC 726
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Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756

Qy 727 GGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786
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Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807

Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846
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Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867

Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC 906
 || || || || || || || || || || || || || || || || ||

Db 868 GGTC--TAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAAC 925

Qy 907 CCGTGGAGCAAGTGGTGGCCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966
 | | | | | | | | | | | | | | | | | | | | | | |

Db 926 CTCTTCATGAAATAAAACCCCAAAGCATTGAG----AATGCCAGCGACATTGCTTTGTAC 981

Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026
 || || || || || || || || || || || || || || || || ||

Db 982 TCGGGCTTGGGTGCTGCCGTCTGGCCGTTGCAGTCTGGTCATTGGTGT-----CACC 1035

Qy 1027 AACTGTACAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086
 | | | | | | | | | | | | | | | | | | | | | |

Db 1036 CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTGATTGACTCTTCTGCATTGACA 1095

Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTT 1146
 | ||| || || || || || || || || || || || || || ||

Db 1096 GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT 1155

Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206
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 Db 1156 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1207

Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266
 | | | | | | | | | | | | | | | | | |
 Db 1208 GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCCTCACTCTTTAACCCCTT 1264

Qy 1267 CAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326
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 Db 1265 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATGGTTTCCCTGGGAGTGTCTGAGA 1324

Qy 1327 GGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386
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 Db 1325 GAGCTGAGTACCAAGGCAAGAATCATTCCAGGACTTTT----- 1362

Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446
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 Db 1363 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1422

Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506
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 Db 1423 CAAAATCTG-----TCATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1473

Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566
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 Db 1474 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1533

Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626
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 Db 1534 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1590

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686
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 Db 1591 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1650

Qy 1687 CCCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746
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 Db 1651 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1710

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806
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 Db 1711 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1770

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866
 | | | | | | | | | | | | | | | | | |
 Db 1771 GTGATGTGAGTGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1824

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926
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 Db 1825 GCGTGTGATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1884

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986
 | | | | | | | | | | | | | | | | | |
 Db 1885 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1944

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046
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 Db 1945 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2004

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCATTCAAG 2106
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 Db 2005 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2064

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2166
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 Db 2065 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2124

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAGCGAGCGG 2226
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 Db 2125 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAACCGGCAG 2184

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286
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 Db 2185 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2244

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346
 || | || | ||||| | ||||| ||||| || | || | || | || |
 Db 2245 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2304

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406
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 Db 2305 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2364

Qy 2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466
 | | ||||| ||||| ||||| ||||| || | || | || | || | || |
 Db 2365 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2424

Qy 2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTCCACCTG 2526
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 Db 2425 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2484

Qy 2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
 |||| || | | || | | |||| || | || | |||||
 Db 2485 AACAGGAATTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2544

Qy 2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
 ||||| || || | | | || | || | |||| || | || |
 Db 2545 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2604

Qy 2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAG 2691
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 Db 2605 ATTGGGAGGACACACGAACTCTCAAACATTTCAGAATCCCAG 2649

RESULT 12

US-09-969-532-15

; Sequence 15, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756
 Qy 727 GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846
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 Db 808 CATTTCGGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 906
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 Db 868 GGTCTAAGCCAGGAATCTGAAAACAGCAGATGGTCTTTGCATCCTAGGCATTGAGAAT 927
 Qy 907 CCGTGGAGCAAGTGGTGGGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966
 | | | | | | || || || ||
 Db 928 GCCAGCGACATTGCTTTGTACTCGGGCTTGG----- 958
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026
 | | | | | | | | | | | | | | | |
 Db 959 -----GTGCTGCCGTCTGTGGCCGTTGCAGTCCTGGTCATTGGTGTCAAC 1002
 Qy 1027 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086
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 Db 1003 CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA 1062
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCTCGTT 1146
 | ||| || || | || || || | || | ||| || |
 Db 1063 GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT 1122
 Qy 1147 TATTGCCGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206
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 Db 1123 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1174
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTCACCATC 1266
 | ||| | ||| || | | || | | | | ||| |
 Db 1175 GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCCTCACTCTTTAACCCCTT 1231
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326
 | | | | | ||| | | |||| | | |
 Db 1232 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGA 1291
 Qy 1327 GGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386
 | || || ||| | || | || | |
 Db 1292 GAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT----- 1329
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446
 | ||| | ||||| || | | | | | || |
 Db 1330 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1389
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506
 | | | | |||| || | | | | ||| ||| |
 Db 1390 CAAATCTGT-----CATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTG 1440
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566
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 Db 1441 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1500

Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA. 1626
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 Db 1501 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1557

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 1558 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1617

Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 1618 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1677

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 1678 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1737

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 1738 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1791

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 1792 GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1851

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986
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 Db 1852 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1911

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046
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 Db 1912 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 1971

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106
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 Db 1972 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2031

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 2032 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2091

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 2092 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2151

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 2152 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCCTGC 2211

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346
 | | | | | | | | | | | | | | | | | | | | | | | |
 Db 2212 AAAATCTGCATTGCGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2271

Qy 2347 ACCAAGGACACAAGGTTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406
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 Db 2272 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2331


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Qy      2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466
        | | . | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2332 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2391

Qy      2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2392 TTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2451

Qy      2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2452 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2511

Qy      2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
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Db      2512 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2571

Qy      2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2691
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Db      2572 ATGGGAGGACACACACGAACTCTCAAACATTTCAGAATCCCAG 2616

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RESULT 13

US-09-471-276-345

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; Sequence 345, Application US/09471276
; Patent No. 6822072
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6822072
; FILE REFERENCE: GENSET.025CP1
; CURRENT APPLICATION NUMBER: US/09/471,276
; CURRENT FILING DATE: 1999-12-21
; EARLIER APPLICATION NUMBER: 09/057,719
; EARLIER FILING DATE: 1998-04-09
; EARLIER APPLICATION NUMBER: 09/069,047
; EARLIER FILING DATE: 1998-04-28
; EARLIER APPLICATION NUMBER: PCT/IB99/00712
; EARLIER FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 1622
; SOFTWARE: Patent.pm
; SEQ ID NO 345
; LENGTH: 349
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 207..347
; NAME/KEY: sig_peptide
; LOCATION: 207..278
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 5.40000009536743
; OTHER INFORMATION: seq SCCCLSSSSFIAG/RR

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US-09-471-276-345

Query Match 12.0%; Score 323; DB 4; Length 349;

Best Local Similarity 98.8%; Pred. No. 4.4e-64;
Matches 335; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

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Qy      889 GTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 948
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Db      12 GTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 71

Qy      949 TGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 1008
      |||||
Db      72 TGGCGGA-CCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 130

Qy     1009 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCT 1068
      |||||
Db     131 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACACTGCTTCTGGCCCT 190

Qy     1069 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTG 1128
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Db     191 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCBTGGTCCTGCTGCTG 250

Qy     1129 CTTGTCTCATCCTCGTTTTATTGCCGGAAGAAGGAGGGGGCTGGACTCAGATGTGGCTGAC 1188
      |||||
Db     251 CTTGTCTCATCCTCGTTTTATTGCCGGAAGAAGGAGGGGGCTGGACTCAGATGTGGCTGAC 310

Qy     1189 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 1227
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Db     311 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 349
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RESULT 14

US-09-969-532-31

; Sequence 31, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 31

; LENGTH: 1968

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-31

Query Match 10.9%; Score 293.2; DB 4; Length 1968;

Best Local Similarity 53.7%; Pred. No. 4.9e-57;

Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy     1468 TCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1527
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Db     709 TCACTCCCCACAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGC 768
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Qy. 1528 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGG 1587
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 Db 769 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 828

Qy 1588 AAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCT 1647
 | | | | | | | | | | | | | | | | | | | | | |
 Db 829 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 885

Qy 1648 GGCTGTCAGACCCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCCTGCTCACC 1707
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 Db 886 GGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGTCCTCCAGACATGATCGTCACC 945

Qy 1708 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1767
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 Db 946 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATC 1005

Qy 1768 CGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAG 1827
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1006 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1065

Qy 1828 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1887
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1066 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGTCATGTGCTCCTGGAC 1119

Qy 1888 CAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1947
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1120 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1179

Qy 1948 AAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTAC 2007
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1180 AAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTGGATTACAACCTGAGAGTTTAC 1239

Qy 2008 TGCCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGG 2067
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 Db 1240 TGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTTTCAGATGAAAGGCATCAAGGT 1299

Qy 2068 GGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGC 2127
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 Db 1300 GGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAG 1359

Qy 2128 CTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAG 2187
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 Db 1360 ATTTCTGTCCTTGATATTCCCCCATTCCTCTGGAGAATTAAACCATTCAGTGCCTGCCAG 1419

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RESULT 15

US-09-969-532-29

; Sequence 29, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 29

; LENGTH: 2001

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-29

Query Match 10.9%; Score 293.2; DB 4; Length 2001;

Best Local Similarity 53.7%; Pred. No. 4.9e-57;

Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Search completed: March 6, 2005, 10:24:58
 Job time : 441.67 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 6, 2005, 05:25:16 ; Search time 1458.63 Seconds
(without alignments)
10971.677 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5401638 seqs, 2966923429 residues

Total number of hits satisfying chosen parameters: 10803276

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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- 22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	%		Query			ID	Description
	Score	Match	Length	DB			
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2	2697	100.0	2752	17	US-10-624-932-1		Sequence 1, Appli
3	2621.4	97.2	2881	10	US-09-970-944-1		Sequence 1, Appli
4	2343	86.9	3561	18	US-10-643-795A-77		Sequence 77, Appl
5	2343	86.9	3580	17	US-10-311-623-13		Sequence 13, Appl
6	2252.2	83.5	2697	16	US-10-240-154-15		Sequence 15, Appl
7	2252.2	83.5	3014	10	US-09-933-261-1		Sequence 1, Appli
8	2252.2	83.5	3014	14	US-10-256-702-1		Sequence 1, Appli
9	1552.4	57.6	1787	10	US-09-933-261-2		Sequence 2, Appli
10	1552.4	57.6	1787	14	US-10-256-702-2		Sequence 2, Appli
11	1200.6	44.5	1321	17	US-10-296-115-365		Sequence 365, App
12	936.2	34.7	2860	17	US-10-087-684-1		Sequence 1, Appli
13	936.2	34.7	2860	17	US-10-087-684-3		Sequence 3, Appli
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15	936.2	34.7	2860	17	US-10-218-779-3		Sequence 3, Appli
16	912.2	33.8	2895	17	US-10-037-417-37		Sequence 37, Appl
17	902.6	33.5	3485	9	US-09-816-828-18		Sequence 18, Appl
18	901	33.4	3884	14	US-10-028-072-145		Sequence 145, App
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28	901	33.4	3884	14	US-10-142-431-145		Sequence 145, App
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38	901	33.4	3884	14	US-10-123-261-145		Sequence 145, App
39	901	33.4	3884	14	US-10-140-921-145		Sequence 145, App
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41	901	33.4	3884	14	US-10-121-045-145		Sequence 145, App
42	901	33.4	3884	14	US-10-123-292-145		Sequence 145, App
43	901	33.4	3884	14	US-10-123-903-145		Sequence 145, App
44	901	33.4	3884	14	US-10-124-819-145		Sequence 145, App
45	901	33.4	3884	14	US-10-124-822-145		Sequence 145, App

ALIGNMENTS

RESULT 1
US-09-918-779-1

; Sequence 1, Application US/09918779
; Publication No. US20030064369A1
; GENERAL INFORMATION:
; APPLICANT: Taupier, Raymond
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Rastelli, Luca
; APPLICANT: Spaderna, Steven
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Spytek, Kimberly
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Gusev, Vladimir
; APPLICANT: Grosse, William
; APPLICANT: Alsobrook, John
; APPLICANT: Lepley, Denise
; APPLICANT: Burgess, Catherine
; APPLICANT: Gerlach, Valerie
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Stone, David
; APPLICANT: Smithson, Glennda
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-074 US
; CURRENT APPLICATION NUMBER: US/09/918,779
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/221,409
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/222,840
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,752
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/223,762
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/223,770
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/223,769
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/225,146
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/225,392
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/225,470
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/225,697
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/263,662
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/281,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2752
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-779-1

Query Match 100.0%; Score 2697; DB 10; Length 2752;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2697; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	121	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	166	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	225
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
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Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	286	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	345
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTGGAG	360
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Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
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Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1366	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1486	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Qy	1561	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1606	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680

Db	1666	 CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Qy	1681	TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1726	 TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1786	 GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1846	 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1906	 GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1966	 CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	2026	 TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2086	 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2146	 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Qy	2161	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAG	2220
Db	2206	 AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAG	2265
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2266	 CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2326	 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2386	 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2445
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2446	 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC	2520

Db 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2565
 Qy 2521 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2580
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 Db 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625
 Qy 2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
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 Db 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685
 Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
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RESULT 2

US-10-624-932-1

; Sequence 1, Application US/10624932
 ; Publication No. US20040096877A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Taupier, Raymond
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Rastelli, Luca
 ; APPLICANT: Spaderna, Steven
 ; APPLICANT: Shimkets, Richard
 ; APPLICANT: Zerhusen, Bryan
 ; APPLICANT: Spytek, Kimberly
 ; APPLICANT: Shenoy, Suresh
 ; APPLICANT: Li, Li
 ; APPLICANT: Gusev, Vladimir
 ; APPLICANT: Grosse, William
 ; APPLICANT: Alsobrook, John
 ; APPLICANT: Lepley, Denise
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Ellerman, Karen
 ; APPLICANT: MacDougall, John
 ; APPLICANT: Stone, David
 ; APPLICANT: Smithson, Glennnda
 ; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 21402-074 US
 ; CURRENT APPLICATION NUMBER: US/10/624,932
 ; CURRENT FILING DATE: 2003-07-21
 ; PRIOR APPLICATION NUMBER: 09/918,779
 ; PRIOR FILING DATE: 2001-07-03
 ; PRIOR APPLICATION NUMBER: 60/221,409
 ; PRIOR FILING DATE: 2000-07-28
 ; PRIOR APPLICATION NUMBER: 60/222,840
 ; PRIOR FILING DATE: 2000-08-04
 ; PRIOR APPLICATION NUMBER: 60/223,752
 ; PRIOR FILING DATE: 2000-08-08
 ; PRIOR APPLICATION NUMBER: 60/223,762
 ; PRIOR FILING DATE: 2000-08-08
 ; PRIOR APPLICATION NUMBER: 60/223,770
 ; PRIOR FILING DATE: 2000-08-08
 ; PRIOR APPLICATION NUMBER: 60/223,769
 ; PRIOR FILING DATE: 2000-08-08

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; PRIOR APPLICATION NUMBER: 60/225,146
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/225,392
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/225,470
; PRIOR FILING DATE: 2000-08-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2752
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-624-932-1
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Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	646	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	705
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	706	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	765
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Qy	841	TGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900
Db	886	TGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	945
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	946	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Qy	1021	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1066	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1185
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCCTACCAGGGCAGTCTCTGTCCCCGG	1365
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485

Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1486	CGCCTCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
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Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1606	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Qy	1681	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1726	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Qy	2161	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	2206	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325

Qy 2281 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2340
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 Db 2326 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2385

Qy 2341 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC 2400
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 Db 2386 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC 2445

Qy 2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2460
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 Db 2446 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2505

Qy 2461 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTC 2520
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 Db 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTC 2565

Qy 2521 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2580
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 Db 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625

Qy 2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
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 Db 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685

Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
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RESULT 3

US-09-970-944-1

; Sequence 1, Application US/09970944

; Publication No. US20030204052A1

; GENERAL INFORMATION:

; APPLICANT: Herrman, John L

; APPLICANT: Rastelli, Luca

; APPLICANT: Shimkets, Richard A

; TITLE OF INVENTION: No. US20030204052A1el Proteins and Nucleic Acids Encoding Same and

; TITLE OF INVENTION: Antibodies Directed Against these Proteins

; FILE REFERENCE: 21402-138

; CURRENT APPLICATION NUMBER: US/09/970,944

; CURRENT FILING DATE: 2002-05-02

; PRIOR APPLICATION NUMBER: 60/237,862

; PRIOR FILING DATE: 2000-10-04

; NUMBER OF SEQ ID NOS: 62

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2881

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-970-944-1

Query Match 97.2%; Score 2621.4; DB 10; Length 2881;
 Best Local Similarity 98.9%; Pred. No. 0;
 Matches 2673; Conservative 0; Mismatches 21; Indels 9; Gaps 3;

Qy	1	ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	60
Db	87	ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	146
Qy	61	CGCGGCTCGGGTGCCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	147	CGCGGCTCGGGTGCCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	206
Qy	121	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	207	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	266
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	267	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	326
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	327	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGTGAGCCG	386
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	360
Db	387	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	446
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	447	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	506
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	507	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	566
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540
Db	567	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	626
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	627	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	686
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	687	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	746
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	747	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	806
Qy	721	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	807	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	866
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	867	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	926
Qy	841	TGTGAGGGGCGAGAATGTCCAGAA---AACAGCCTGCGCCACCCTGTGCCCAGTAGACGGC	897

Db	927	 TGTGAGGGGCAGAATGTCCATGACCGCACCGTCTCCTCTCTGCTTGTCTCTGTGGACGGC	986
Qy	898	AGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	957
Db	987	 AGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1046
Qy	958	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1017
Db	1047	 CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1106
Qy	1018	GACACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1077
Db	1107	 GACACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1166
Qy	1078	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCTC	1137
Db	1167	 GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCTC	1226
Qy	1138	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1197
Db	1227	 ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1286
Qy	1198	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1257
Db	1287	 CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1346
Qy	1258	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1317
Db	1347	 CTCACCATCCAGCCGGACCTCAG---CACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1403
Qy	1318	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1377
Db	1404	 CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1463
Qy	1378	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1437
Db	1464	 GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1523
Qy	1438	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1497
Db	1524	 TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1583
Qy	1498	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1557
Db	1584	 TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1643
Qy	1558	CTCATCCCCCAGATGCCATACCCCAGGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1617
Db	1644	 CTCATCCCCCAGATGCCATACCCCAGGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1703
Qy	1618	AAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1677
Db	1704	 AAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1763
Qy	1678	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1737

Db	1764	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1823
Qy	1738	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1797
Db	1824	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1883
Qy	1798	TGGG---AGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAG	1854
Db	1884	TGGGAGCAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAG	1943
Qy	1855	CTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGA	1914
Db	1944	CTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGA	2003
Qy	1915	GAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCC	1974
Db	2004	GAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCC	2063
Qy	1975	TGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTC	2034
Db	2064	TGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTC	2123
Qy	2035	AAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTC	2094
Db	2124	AAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTC	2183
Qy	2095	CTGCACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCC	2154
Db	2184	CTGCACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCC	2243
Qy	2155	CTGTGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAAT	2214
Db	2244	CTGTGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAAT	2303
Qy	2215	GGCACGCAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGT	2274
Db	2304	GGCACGCAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGT	2363
Qy	2275	GACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATC	2334
Db	2364	GACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATC	2423
Qy	2335	AACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCG	2394
Db	2424	AACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCG	2483
Qy	2395	GGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAG	2454
Db	2484	GGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAG	2543
Qy	2455	ATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAG	2514
Db	2544	ATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAG	2603
Qy	2515	AAACTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATG	2574
Db	2604	AAACTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATG	2663

Qy 2575 ATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCA 2634
 |||
 Db 2664 ATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCA 2723

Qy 2635 GCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGC 2694
 |||
 Db 2724 GCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGC 2783

Qy 2695 TGA 2697
 |||
 Db 2784 TGA 2786

RESULT 4

US-10-643-795A-77

; Sequence 77, Application US/10643795A
 ; Publication No. US20040241703A1
 ; GENERAL INFORMATION:
 ; APPLICANT: FREDERIC J. DESAUVAGE
 ; APPLICANT: GRETCHEN FRANTZ
 ; APPLICANT: KENNETH J. HILLAN
 ; APPLICANT: PAUL POLAKIS
 ; APPLICANT: ANDREW POLSON
 ; APPLICANT: VICTORIA SMITH
 ; APPLICANT: SUSAN D. SPENCER
 ; APPLICANT: THOMAS D. WU
 ; APPLICANT: ZEMIN ZHANG
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
 ; TITLE OF INVENTION: TREATMENT OF TUMOR
 ; FILE REFERENCE: P5026R1-US
 ; CURRENT APPLICATION NUMBER: US/10/643,795A
 ; CURRENT FILING DATE: 2003-08-19
 ; PRIOR APPLICATION NUMBER: US 60/404,809
 ; PRIOR FILING DATE: 2002-08-19
 ; PRIOR APPLICATION NUMBER: US 60/405,645
 ; PRIOR FILING DATE: 2002-08-21
 ; PRIOR APPLICATION NUMBER: US 60/413,192
 ; PRIOR FILING DATE: 2002-09-23
 ; PRIOR APPLICATION NUMBER: US 60/419,008
 ; PRIOR FILING DATE: 2002-10-15
 ; PRIOR APPLICATION NUMBER: US 60/426,847
 ; PRIOR FILING DATE: 2002-11-15
 ; PRIOR APPLICATION NUMBER: US 60/484,959
 ; PRIOR FILING DATE: 2003-07-02
 ; NUMBER OF SEQ ID NOS: 158
 ; SEQ ID NO 77
 ; LENGTH: 3561
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-10-643-795A-77

Query Match 86.9%; Score 2343; DB 18; Length 3561;
 Best Local Similarity 93.6%; Pred. No. 0;
 Matches 2524; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

Qy 1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60

Db	4		ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	63
Qy	61		CGCGGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	64		CGCGGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	123
Qy	121		GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	124		GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	183
Qy	181		GTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	184		GTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	243
Qy	241		TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	244		TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	303
Qy	301		ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	360
Db	304		ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	363
Qy	361		GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	364		GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	423
Qy	421		TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	424		TACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	483
Qy	481		TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540
Db	484		TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	543
Qy	541		GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	544		GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	603
Qy	601		ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	604		ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	663
Qy	661		TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	720
Db	664		TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	723
Qy	721		GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	724		GTG-----	726
Qy	781		GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	727		-----	726
Qy	841		TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900

Db	727	-----GACGGCAGC	735
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	736	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	795
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	796	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	855
Qy	1021	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	856	ACCCGCAACTGTACCACTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGGCC	915
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	916	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	975
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	976	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1035
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1036	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1095
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1096	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1155
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1156	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1215
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1216	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1275
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1276	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1335
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1336	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTC	1395
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1396	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1455
Qy	1621	CCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1456	CCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1515
Qy	1681	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1516	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1575

Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1576	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1635
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1636	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1695
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1696	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1755
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1756	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1815
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1816	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	1875
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	1876	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	1935
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	1936	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	1995
Qy	2161	AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	1996	AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2055
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2056	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2115
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2116	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2175
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2176	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2235
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2236	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2295
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2296	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2355
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2356	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2415

Qy 2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
 Db 2416 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2475

Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
 Db 2476 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2532

RESULT 5

US-10-311-623-13

; Sequence 13, Application US/10311623

; Publication No. US20040023244A1

; GENERAL INFORMATION:

; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.

; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.

; APPLICANT: YUE, Henry; NGUYEN, Danniel B.

; APPLICANT: TANG, Y. Tom; LAL, Preeti G.

; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda

; APPLICANT: LU, Dyung Aina M.; GRAUL, Richard C.

; APPLICANT: YAO, Monique G.; BURFORD, Neil

; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.

; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.

; APPLICANT: YANG, Junming; XU, Yuming

; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.

; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.

; APPLICANT: DUGGAN, Brendan M.; LU, Yan

; TITLE OF INVENTION: RECEPTORS

; FILE REFERENCE: PF-0793 USN

; CURRENT APPLICATION NUMBER: US/10/311,623

; CURRENT FILING DATE: 2002-12-17

; PRIOR APPLICATION NUMBER: US 01/19942

; PRIOR FILING DATE: 2001-06-21

; PRIOR APPLICATION NUMBER: US 60/214,027

; PRIOR FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: US 60/228,045

; PRIOR FILING DATE: 2000-08-25

; PRIOR APPLICATION NUMBER: US 60/255,104

; PRIOR FILING DATE: 2000-12-12

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PERL Program

; SEQ ID NO 13

; LENGTH: 3580

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. US20040023244A1 6052371CB1

US-10-311-623-13

Query Match 86.9%; Score 2343; DB 17; Length 3580;

Best Local Similarity 93.6%; Pred. No. 0;

Matches 2524; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

Qy 1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
 Db 4 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 63

Qy	61	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	64	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	123
Qy	121	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	124	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	183
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	184	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	243
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	244	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	303
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGGCTGGAG	360
Db	304	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGGCTGGAG	363
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	364	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	423
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	424	TACATCCGCATAGCCATATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	483
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	540
Db	484	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	543
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	544	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	603
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	604	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	663
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	720
Db	664	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	723
Qy	721	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	724	GTG-----	726
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	727	-----	726
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900
Db	727	-----GACGGCAGC	735

Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	736	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	795
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	796	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	855
Qy	1021	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	856	ACCCGCAACTGTACCAGTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGGCC	915
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	916	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	975
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	976	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1035
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1036	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1095
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1096	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1155
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1156	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1215
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1216	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1275
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1276	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1335
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1336	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTC	1395
Qy	1561	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1396	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1455
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1456	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1515
Qy	1681	TGTGGACCCCTGGCGTCTGTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1516	TGTGGACCCCTGGCGTCTGTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1575
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800

Db	1576	 GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1635
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1636	 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1695
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1696	 GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1755
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1756	 CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1815
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1816	 TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	1875
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	1876	 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	1935
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	1936	 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	1995
Qy	2161	AAGAGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	1996	 AAGAGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2055
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2056	 CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2115
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2116	 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2175
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2176	 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2235
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2236	 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2295
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2296	 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2355
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2356	 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2415
Qy	2581	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640

Db 2416 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2475
 Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
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 Db 2476 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2532

RESULT 6

US-10-240-154-15

; Sequence 15, Application US/10240154
 ; Publication No. US20030175741A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cochran et al.
 ; TITLE OF INVENTION: SCHIZOPHRENIA RELATED GENES
 ; FILE REFERENCE: CKFW-P01-006
 ; CURRENT APPLICATION NUMBER: US/10/240,154
 ; CURRENT FILING DATE: 2001-04-02
 ; PRIOR APPLICATION NUMBER: PCT/GB01/01486
 ; PRIOR FILING DATE: 2001-04-02
 ; NUMBER OF SEQ ID NOS: 34
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 15
 ; LENGTH: 2697
 ; TYPE: DNA
 ; ORGANISM: Rattus sp.
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1)..(2697)

US-10-240-154-15

Query Match 83.5%; Score 2252.2; DB 16; Length 2697;
 Best Local Similarity 89.7%; Pred. No. 0;
 Matches 2419; Conservative 0; Mismatches 278; Indels 0; Gaps 0;

Qy 1 ATGGCCGTCCGGCCCGGCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
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 Db 1 ATGGCCGTCCGGCCCGGCTGTGGCCAGTGTCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60
 Qy 61 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 120
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 Db 61 CGTGGTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCC 120
 Qy 121 GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
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 Db 121 GACCTGCTGCCCCACTTCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180
 Qy 181 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 240
 ||| || | |||||||||| |||| |||| |||||||||||||||| ||||
 Db 181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240
 Qy 241 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 300
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 Db 241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300
 Qy 301 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTTCGGGCTGGAG 360
 |||||||||||| || || || || |||||||||| |||| |||| ||||||||
 Db 301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy	361	GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACTACACC	660
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGAGCGCCTCCGCTGCTGTTCATCGTCTAC	720
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTTCATTGTTTAT	720
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCTTC	840
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	900
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	901	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	901	TGGAGTTTCGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGCGGGTGCTGACCTGGAC	1020
Qy	1021	ACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1021	ACCCGCAACTGTACCAAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTGCTGTTGCTGGCCCTTGGA	1140
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1141	CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200

Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1201		
Qy	1261	ACCTCGGGCTTCCAGCCTGTCTAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261		
Qy	1261	ACCATCCAGCCAGACCTCAGCACCACCACCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321		
Qy	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCCTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381		
Qy	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCGAGGCCACCAGCAACATGACCTAT	1500
Db	1441		
Qy	1441	CGCCTCTCCACCCAAACTACTTTCTGTTCCCTGCCCGCGGCCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501		
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561		
Qy	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCTTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621		
Qy	1621	CCAGAAGACGTGAGGTTGCCCTTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681		
Qy	1681	TGTGGGGCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741		
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801		
Qy	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861		
Qy	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921		
Qy	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCCTCCCGTGGCCTGTACG	1980
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981		
Qy	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100

Db	2041		GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2101		TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2101		TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG	2160
Qy	2161		AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	2161		AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2221		CAGCGGTACTTGCCTGACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2221		CAGCAGTATCTGCTGACCTTACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2281		GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2281		GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2341		AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2341		AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC	2400
Qy	2401		CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2401		CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC	2460
Qy	2461		TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2461		GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCAGAACTT	2520
Qy	2521		CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2521		CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2581		AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640
Db	2581		AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2641		GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGAGGCTGAGTGCTGA	2697
Db	2641		GCCGGACTGGGCCAACAGATGCTGGCCTCTTCACGGTGTGGAGGCCGAGTGTTGA	2697

RESULT 7

US-09-933-261-1

; Sequence 1, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:


```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/933,261
;      FILING DATE: 20-Aug-2001
;      CLASSIFICATION: <Unknown>
;
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 08/808,982
;      FILING DATE: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 1:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 3014 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;
;      SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-933-261-1

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Query Match          83.5%;  Score 2252.2;  DB 10;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2419;  Conservative 0;  Mismatches 278;  Indels 0;  Gaps 0;

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Qy      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
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Db      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     61 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCGTGGTGCCAACCCG 120
        || || |||||||
Db     61 CGTGGTTGCGGGTGCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy    121 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
        |||||||
Db    121 GACCTGCTGCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy    181 GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 240
        ||| || |||||||
Db    181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy    241 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 300
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Db	241	TGGGTCCGCCAGGTCGATCACGTAATTGAACGCAGCACCCGACAGCAGCGGATTGCCA	300
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCTGGGCTGGAG	360
Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTCTGGGCTGGAG	360
Qy	361	GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGGCATCCCTCCAGCCGAG	540
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACTACACC	660
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGACGCGCTCCGCTGCTGTCATCGTCTAC	720
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCATTGTTTAT	720
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGCTCTGCAGCGCCAGCTGTGGGCGC	780
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGCTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCTTC	840
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	900
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	901	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	901	TGGAGTTCGTGGAGTAAGTGGTTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020
Qy	1021	ACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1021	ACCCGCAACTGTACCAAGTACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATC	1140
Db	1081	CTCTACATCGGCCTTGTGCGTGTGGCTGTGTGCCTCTTCTGCTGTTGCTGGCCCTTGGA	1140

Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1141	CTCATTTACTGTCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1201	ACCTCGGGCTTCCAGCCTGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621	CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681	TGTGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980

Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2160
Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG	2160
Qy	2161	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAG	2220
Db	2161	AAGAGCAAGCTACTTGTGCTAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2221	CAGCGGTACTTGCCTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
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Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC	2400
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Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC	2460
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2461	GCCAGTCTGGACCCACCCTGCAGCGGGGCGCCGACTGGAGAACTCTAGCCAGAACTT	2520
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2581	AACCTGTGGGAGGCGCGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2641	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA	2697
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGCGGAGGCCGAGTGTTGA	2697

RESULT 8

US-10-256-702-1

; Sequence 1, Application US/10256702

; Publication No. US20030059859A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

```

;           Masu, Masayuki
;           Kazuko, Keino-Masu
;   TITLE OF INVENTION: Netrin Receptors
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;       STREET: 268 BUSH STREET, SUITE 3200
;       CITY: SAN FRANCISCO
;       STATE: CALIFORNIA
;       COUNTRY: USA
;       ZIP: 94104
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/10/256,702
;       FILING DATE: 27-Sep-2002
;       CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US/09/933,261
;       FILING DATE: 20-Aug-2001
;       APPLICATION NUMBER: 08/808,982
;       FILING DATE: <Unknown>
;   ATTORNEY/AGENT INFORMATION:
;       NAME: OSMAN, RICHARD A
;       REGISTRATION NUMBER: 36,627
;       REFERENCE/DOCKET NUMBER: UC96-217
;   TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (415) 343-4341
;       TELEFAX: (415) 343-4342
;   INFORMATION FOR SEQ ID NO: 1:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 3014 base pairs
;           TYPE: nucleic acid
;           STRANDEDNESS: double
;           TOPOLOGY: linear
;       MOLECULE TYPE: cDNA
;       SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-256-702-1

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Query Match          83.5%;  Score 2252.2;  DB 14;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2419;  Conservative 0;  Mismatches 278;  Indels 0;  Gaps 0;

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Qy      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
        |||
Db      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCTTGGCTT 60

Qy     61 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 120
        || ||
Db     61 CGTGGTTTCGGGTGCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy    121 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
        |||
Db    121 GACCTGCTGCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

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Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCCCGCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	181	GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA	240
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	241	TGGGTCCGCCAGGTGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA	300
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGCTGGAG	360
Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG	360
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	540
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	660
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCAATTGTTTAT	720
Qy	721	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	721	GTGAACGGTGGGTGGTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	900
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	901	TGGAGTTCGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020

Qy 1021 ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC 1080
 |||||
 Db 1021 ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT 1080

Qy 1081 CTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC 1140
 |||||
 Db 1081 CTCTACATCGGCCTTGTCTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGGA 1140

Qy 1141 CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC 1200
 |||||
 Db 1141 CTCATTTACTGTCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC 1200

Qy 1201 ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC 1260
 |||||
 Db 1201 ACCTCGGGCTTCCAGCCTGTCTAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC 1260

Qy 1261 ACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG 1320
 |||||
 Db 1261 ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTGAGG 1320

Qy 1321 CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCATGGGCACCTGCTCAGCCCCCTGGGT 1380
 |||||
 Db 1321 CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG 1380

Qy 1381 GCGGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC 1440
 |||||
 Db 1381 AGTGGCCGCCATACGTTGCACCACAGCTCACCACCTCTGAGGCTGAGGACTTCGTCTCC 1440

Qy 1441 CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT 1500
 |||||
 Db 1441 CGCCTCTCCACCCAAACTACTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC 1500

Qy 1501 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC 1560
 |||||
 Db 1501 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC 1560

Qy 1561 ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG 1620
 |||||
 Db 1561 ATACCCCGGATGCCATACCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG 1620

Qy 1621 CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC 1680
 |||||
 Db 1621 CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC 1680

Qy 1681 TGTGGACCCCTGGCGTCTGCTCACC CGCCAGTCATCCTGGCTATGGACCACTGTGGG 1740
 |||||
 Db 1681 TGTGGGCCCCCAGGAGTCTGCTCACC CGCCAGTCATCCTTGCAATGGACCACTGTGGA 1740

Qy 1741 GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGTTGG 1800
 |||||
 Db 1741 GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG 1800

Qy 1801 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG 1860
 |||||
 Db 1801 GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTCCCACCTCTACTACTGCCAGCTGGAG 1860

Qy 1861 GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCC 1920


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; Sequence 2, Application US/09933261
; Publication No. US20030040046A1
; GENERAL INFORMATION:
;     APPLICANT: Tessier-Lavigne, Marc
;                 Leonardo, E. David
;                 Hink, Lindsay
;                 Masu, Masayuki
;                 Kazuko, Keino-Masu
;     TITLE OF INVENTION: Netrin Receptors
;     NUMBER OF SEQUENCES: 8
;     CORRESPONDENCE ADDRESS:
;         ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;         STREET: 268 BUSH STREET, SUITE 3200
;         CITY: SAN FRANCISCO
;         STATE: CALIFORNIA
;         COUNTRY: USA
;         ZIP: 94104
;     COMPUTER READABLE FORM:
;         MEDIUM TYPE: Floppy disk
;         COMPUTER: IBM PC compatible
;         OPERATING SYSTEM: PC-DOS/MS-DOS
;         SOFTWARE: PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;         APPLICATION NUMBER: US/09/933,261
;         FILING DATE: 20-Aug-2001
;         CLASSIFICATION: <Unknown>
;     PRIOR APPLICATION DATA:
;         APPLICATION NUMBER: 08/808,982
;         FILING DATE: <Unknown>
;     ATTORNEY/AGENT INFORMATION:
;         NAME: OSMAN, RICHARD A
;         REGISTRATION NUMBER: 36,627
;         REFERENCE/DOCKET NUMBER: UC96-217
;     TELECOMMUNICATION INFORMATION:
;         TELEPHONE: (415) 343-4341
;         TELEFAX: (415) 343-4342
;     INFORMATION FOR SEQ ID NO: 2:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 1787 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: double
;             TOPOLOGY: linear
;         MOLECULE TYPE: cDNA
;         SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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Query Match 57.6%; Score 1552.4; DB 10; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1651; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

[illegible]

Db	60	ATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG	119
Qy	1145	TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT	1204
Db	120	TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT	179
Qy	1205	CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	1263
Db	180	CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	239
Qy	1264	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	1323
Db	240	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	299
Qy	1324	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	1383
Db	300	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1384	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1443
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1444	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1503
Db	420	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1504	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1563
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1623
Db	540	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCTTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	GAAGACGTGAGGTTGCCCTTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1803
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957

Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2103
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2163
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2343
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2344	ATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403
Db	1315	ATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2404	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC	2463
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC	1434
Qy	2464	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2523
Db	1435	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2524	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2583
Db	1495	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2584	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2643
Db	1555	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2644	GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1615	GGGACTGGCCAGCAGGACGGTGGCTTCTTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1670

RESULT 10

US-10-256-702-2

; Sequence 2, Application US/10256702

; Publication No. US20030059859A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

```

;           Hink, Lindsay
;           Masu, Masayuki
;           Kazuko, Keino-Masu
;   TITLE OF INVENTION: Netrin Receptors
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;       STREET: 268 BUSH STREET, SUITE 3200
;       CITY: SAN FRANCISCO
;       STATE: CALIFORNIA
;       COUNTRY: USA
;       ZIP: 94104
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/10/256,702
;       FILING DATE: 27-Sep-2002
;       CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US/09/933,261
;       FILING DATE: 20-Aug-2001
;       APPLICATION NUMBER: 08/808,982
;       FILING DATE: <Unknown>
;   ATTORNEY/AGENT INFORMATION:
;       NAME: OSMAN, RICHARD A
;       REGISTRATION NUMBER: 36,627
;       REFERENCE/DOCKET NUMBER: UC96-217
;   TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (415) 343-4341
;       TELEFAX: (415) 343-4342
;   INFORMATION FOR SEQ ID NO: 2:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 1787 base pairs
;           TYPE: nucleic acid
;           STRANDEDNESS: double
;           TOPOLOGY: linear
;       MOLECULE TYPE: cDNA
;       SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-256-702-2

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Query Match          57.6%;  Score 1552.4;  DB 14;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1651;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1025  GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1084
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Db      1    GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1085  ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 1144
          |||||||||||||||||||
Db      60    ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 119

Qy      1145  TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
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Db 120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy 1205 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1263
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Db 180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy 1264 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1323
 |||||

Db 240 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy 1324 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1383
 |||||

Db 300 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy 1384 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1443
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Db 360 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy 1444 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1503
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Db 420 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy 1504 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1563
 |||||

Db 480 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC 539

Qy 1564 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 1623
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Db 540 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 599

Qy 1624 GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT 1683
 |||||

Db 600 GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT 659

Qy 1684 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG 1743
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Db 660 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG 719

Qy 1744 CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG 1803
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Db 720 CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG 778

Qy 1804 GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC 1863
 |||||

Db 779 GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC 837

Qy 1864 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC 1923
 |||||

Db 838 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC 897

Qy 1924 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC 1983
 |||||

Db 898 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC 957

Qy 1984 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG 2043
 |||||

Db 958 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG 1017

Qy 2044 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTC 2103
 |||
 Db 1018 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTC- 1076

Qy 2104 AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG 2163
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 Db 1077 AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG 1134

Qy 2164 AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG 2223
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 Db 1135 AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG 1194

Qy 2224 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 2283
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 Db 1195 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 1254

Qy 2284 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 2343
 |||
 Db 1255 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 1314

Qy 2344 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 2403
 |||
 Db 1315 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 1374

Qy 2404 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC 2463
 |||
 Db 1375 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC 1434

Qy 2464 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 2523
 |||
 Db 1435 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 1494

Qy 2524 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 2583
 |||
 Db 1495 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 1554

Qy 2584 CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 2643
 |||
 Db 1555 CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 1614

Qy 2644 GGAAGTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA 2697
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 Db 1615 GGAAGTGGGCCAGCCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA 1670

RESULT 11

US-10-296-115-365

; Sequence 365, Application US/10296115

; Publication No. US20040053248A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq Inc

; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 784PCT

; CURRENT APPLICATION NUMBER: US/10/296,115

; CURRENT FILING DATE: 2002-11-18

; PRIOR APPLICATION NUMBER: US09/488,725

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; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 365
;   LENGTH: 1321
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-296-115-365
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Qy	2046	GCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAA	2105
Db	661	GCAGCTGGAGAAGCAGCTGCAGGGACAGCTGATCCAGGAGCCACTGGTACTGCACTTCAA	720
Qy	2106	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	2165
Db	721	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	780
Qy	2166	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	2225
Db	781	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	840
Qy	2226	GTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	2285
Db	841	GTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	900
Qy	2286	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	2345
Db	901	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	960
Qy	2346	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	2405
Db	961	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	1020
Qy	2406	CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAG	2465
Db	1021	CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAG	1080
Qy	2466	CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT	2525
Db	1081	CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT	1140
Qy	2526	GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT	2585
Db	1141	GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT	1200
Qy	2586	GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT-G	2644
Db	1201	GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGG	1260
Qy	2645	GACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1261	GACTGGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1315

RESULT 12

US-10-087-684-1

; Sequence 1, Application US/10087684

; Publication No. US20040029116A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.

; APPLICANT: MacDougall, John R.

; APPLICANT: Millet, Isabelle

; APPLICANT: Ellerman, Karen

; APPLICANT: Stone, David J.

; APPLICANT: Grosse, William M.


```
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Cathereine E.
; APPLICANT: Casman, Stacie, J.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-1
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Query Match          34.7%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 2.8e-232;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;
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Qy      98 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 157
      || | | ||      ||      | | | ||| ||| ||||| ||||| |||| |
Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      158 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 217
      ||||| || | ||||| ||||| ||| |||      ||| ||| | ||||| |||| |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA 287
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Qy	218	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	277
Db	288	TCTACTTCAAGTGAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	278	CAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	337
Db	348	TGGATGAGGCCACCGGTCTGCGGGTGCAGGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG	407
Qy	338	TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	397
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG	467
Qy	398	GCACCACCAAGAGTCAGAAGGCCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	457
Db	468	GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC	527
Qy	458	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	517
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCGC	587
Qy	518	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	577
Db	588	CGGAGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAAATGAGGATGTCATCGACCCCA	647
Qy	578	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	637
Db	648	CCCAGGACACCAACTTCCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	638	TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG	697
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGAGCA	767
Qy	698	CCTCCGCTGCTGTCTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	757
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	758	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	817
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAACGCGACCCGGACCTGCACCAACCCCG	887
Qy	818	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	877
Db	888	CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947
Qy	878	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGG	937
Db	948	CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	938	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCGCAACGGAGGGGAGG	997
Db	1008	AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	998	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1057
Db	1068	ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG	1127
Qy	1058	CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG	1117

Db	1128	AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG	1187
Qy	1118	TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG	1177
Db	1188	CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG	1247
Qy	1178	ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA	1234
Db	1248	ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG	1307
Qy	1235	GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA	1288
Db	1308	CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG	1367
Qy	1289	CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA-----	1325
Db	1368	CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA	1427
Qy	1326	-----TGGGCCCAGCCCCAAGTTCCAGCTCACCA-----	1354
Db	1428	CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA	1487
Qy	1355	--ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC	1402
Db	1488	CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG	1547
Qy	1403	ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCTGCTCCCGCCTCTCCACCCAGAATACT	1462
Db	1548	GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC	1607
Qy	1463	TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT	1507
Db	1608	TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT	1667
Qy	1508	TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC	1567
Db	1668	TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGTGGTGGCCA	1727
Qy	1568	CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG	1627
Db	1728	ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA	1787
Qy	1628	ACGTGAGGTTGCCCTAGCTGGCTGTGAGACCTGCTGAGTCCCATCGTTAGCTGTGGAC	1687
Db	1788	GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC	1847
Qy	1688	CCCCTGGCGTCCTGCTACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1747
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCCGTATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1748	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1807
Db	1908	GTGCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1808	TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1867

Db 1968 TGGTGACCCTGGATGAGGAGACCCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027

Qy 1868 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927
|||| || || | || ||||| || | | || ||| || |

Db 2028 CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC 2087

Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987
| || | ||||| || |||| | || || || | ||||| |||

Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCTCTGCACCTCCCTGG 2147

Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047
||||| | ||||| ||||| || |||| | | |||| ||||| ||

Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207

Qy 2048 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAGG 2107
||||||| | ||||| ||| | || | ||||| || |||||

Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267

Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167
||||||| ||||| ||||| || |||| || || || || || || || ||

Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCATTGGAGGAGCA 2327

Qy 2168 AGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227
|||| || | || ||||| ||||| ||||| |||| |||| ||| |

Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387

Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2287
| | ||||| ||||| |||| | |||| | || | |||||

Db 2388 CCCTCCACTGCACCTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447

Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2347
|| | || |||| |||| || || || |||| || | | || |

Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507

Qy 2348 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404
| || | || | || || | || || || ||

Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCTGGCAGCACTGTCACCA 2567

Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTCCGGCAGAAGATAATTTCCA 2464
||| | |||| || ||||| ||||| | ||| || ||||| ||

Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627

Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524
|||| || | || |||| ||||| ||||| | || ||||| ||

Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687

Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584
|||| | | || | ||||| |||| | ||||| || ||||| |||

Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747

Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644
| |||| || | || | || || |||| | |||| || ||| |

Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807

Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGCTGA 2697
|||| || || | || | || | || | || |||||

Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 13

US-10-087-684-3

; Sequence 3, Application US/10087684
; Publication No. US20040029116A1
; GENERAL INFORMATION:
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: MacDougall, John R.
; APPLICANT: Millet, Isabelle
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David J.
; APPLICANT: Grosse, William M.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Cathereine E.
; APPLICANT: Casman, Stacie, J.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 3
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-3

Query Match 34.7%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 2.8e-232;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      98 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 157
      || | | | | | | | | | | | | | | | | | | | | | |
Db     168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy     158 TGTACATCGTCAAGAACAAGCCAGTGTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 217
      || || | | | | | | | | | | | | | | | | | | | |
Db     228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy     218 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 277
      || | | | | | | | | | | | | | | | | | | | | |
Db     288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy     278 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 337
      || | | | | | | | | | | | | | | | | | | | | |
Db     348 TGGATGAGGCCACCGGCCTGCGGGTGC GCGAGGTGCAGATCGAGGTGTGCGGGCAGCAGG 407

Qy     338 TCGAGAAGGTGTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 397
      | | | | | | | | | | | | | | | | | | | | | | |
Db     408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCAG 467

Qy     398 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 457
      || || || || || || || || || || || || || || ||
Db     468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527

Qy     458 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 517
      || || || | | | | | | | | | | | | | | | | | |
Db     528 AGGAGCCTCTGGGCAAGGAGGTGCCCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG 587

Qy     518 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 577
      || || || | | | | | | | | | | | | | | | | |
Db     588 CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA 647

Qy     578 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGC GACAGGCCCGCC 637
      || | || | | | | | | | | | | | | | | | | | |
Db     648 CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC 707

Qy     638 TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG 697
      | | | | | | | | | | | | | | | | | | | | | |
Db     708 TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAACGCCGGAGCA 767

Qy     698 CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCAGCTGGACCGAGTGGTCCG 757
      || | | | | | | | | | | | | | | | | | | | |
Db     768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827

Qy     758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817
      || || | | | | | | | | | | | | | | | | | |
Db     828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG 887

Qy     818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 877
      | | | | | | | | | | | | | | | | | | | | |
Db     888 CTCCACTCAACGGAGGGGCCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947
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Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG 937
 || | ||||| || || ||| ||||| ||||| ||||| | |
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG 1007

Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997
 | || ||||| ||||| ||||| | || ||||| ||||| |
 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067

Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTG 1057
 | ||| || || || ||| | ||||| || || || || || |
 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127

Qy 1058 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1117
 | || | || | || | || | || | || | || | || |
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG 1187

Qy 1118 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1177
 | || || || | || | || | || || || | || | || |
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247

Qy 1178 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1234
 | | ||||| || | || || || ||||| ||||| | || |
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307

Qy 1235 GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1288
 | | ||||| || || | || | || | || || || |
 Db 1308 CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367

Qy 1289 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1325
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 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427

Qy 1326 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1354
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 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487

Qy 1355 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1402
 | |||| | | || || | || || || | || || || ||
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547

Qy 1403 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACTACT 1462
 || | || | || || || || || || || || || || ||
 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCACTTCTGACCTGCGCAGCGCCAGCC 1607

Qy 1463 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1507
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 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667

Qy 1508 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1567
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 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727

Qy 1568 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1627
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 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787

Qy 1628 ACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1687

Db	1788	GTACCCTGCCGCTTTTCAGAAAGGGACCCAGACAGTATTGAGCCCCCTCGGTGACCTGTGGAC	1847
Qy	1688	CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1747
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1748	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1807
Db	1908	GTGCCCCGTGACTGGATCTTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1808	TGCTGCACCTGGGCGAGGAGGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1867
Db	1968	TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCAGGG	2027
Qy	1868	CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG	1927
Db	2028	CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC	2087
Qy	1928	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG	1987
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG	2147
Qy	1988	AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC	2047
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG	2207
Qy	2048	AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG	2107
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG	2267
Qy	2108	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA	2167
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCATTGGAGGAGCA	2327
Qy	2168	AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT	2227
Db	2328	AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG	2387
Qy	2228	ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA	2287
Db	2388	CCCTCCACTGCACTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA	2447
Qy	2288	AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA	2347
Db	2448	AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG	2507
Qy	2348	CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG	2404
Db	2508	CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA	2567
Qy	2405	CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCCTTCCTCATTCGGCAGAAGATAATTTCCA	2464
Db	2568	CCCAGCTGGGACCTTATGCCTTCAAGATCCCAGTGTCCATCCGCCAGAAGATATGCAACA	2627
Qy	2465	GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC	2524

Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687
 Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584
 ||||| | | || | | ||||| |||| | ||||| | ||||| ||
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747
 Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644
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 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807
 Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGTCTGA 2697
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGTCTGA 2860

RESULT 14

US-10-218-779-1

; Sequence 1, Application US/10218779
 ; Publication No. US20040029222A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Edinger, Shlomit
 ; APPLICANT: MacDougall, John
 ; APPLICANT: Millet, Isabelle
 ; APPLICANT: Ellerman, Karen
 ; APPLICANT: Stone, David
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Grosse, William
 ; APPLICANT: Alsobrook II, John
 ; APPLICANT: Lepley, Denise
 ; APPLICANT: Rieger, Daniel
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Casman, Stacie
 ; APPLICANT: Spytek, Kimberly
 ; APPLICANT: Boldog, Ferenc
 ; APPLICANT: Li, Li
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Mishra, Vishnu
 ; APPLICANT: Patturajan, Meera
 ; APPLICANT: Shenoy, Suresh
 ; APPLICANT: Rastelli, Luca
 ; APPLICANT: Tchernev, Velizar
 ; APPLICANT: Vernet, Corine
 ; APPLICANT: Zerhusen, Bryan
 ; APPLICANT: Malyankar, Uriel
 ; APPLICANT: Guo, Xiaojia
 ; APPLICANT: Miller, Charles
 ; APPLICANT: Gangolli, Esha
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 21402-214
 ; CURRENT APPLICATION NUMBER: US/10/218,779
 ; CURRENT FILING DATE: 2002-08-14
 ; PRIOR APPLICATION NUMBER: 60/253,834
 ; PRIOR FILING DATE: 2000-11-29
 ; PRIOR APPLICATION NUMBER: 60/250,-926
 ; PRIOR FILING DATE: 2000-11-30
 ; PRIOR APPLICATION NUMBER: 60/264,180
 ; PRIOR FILING DATE: 2001-01-25

Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827
 Qy 758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817
 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG 887
 Qy 818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 877
 Db 888 CTCCACTCAACGGAGGGGCGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947
 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCCTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 937
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997
 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGGCCGTG 1067
 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTG 1057
 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127
 Qy 1058 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1117
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG 1187
 Qy 1118 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1177
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247
 Qy 1178 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1234
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307
 Qy 1235 GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1288
 Db 1308 CAAGGCCAGTAACCCGCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367
 Qy 1289 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1325
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427
 Qy 1326 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1354
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487
 Qy 1355 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1402
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547
 Qy 1403 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAACTACT 1462
 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607
 Qy 1463 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1507

Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667
 Qy 1508 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1567
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727
 Qy 1568 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1627
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787
 Qy 1628 ACGTGAGGTTGCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1687
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 Db 1788 GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847
 Qy 1688 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1747
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 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907
 Qy 1748 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1807
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1908 GTGCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967
 Qy 1808 TGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTG 1867
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027
 Qy 1868 CCTGTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2028 CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC 2087
 Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987
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 Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG 2147
 Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047
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 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207
 Qy 2048 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG 2107
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267
 Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCATTGGAGGAGCA 2327
 Qy 2168 AGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387
 Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2287
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2388 CCCTCCACTGCACTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447
 Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2347
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 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507

Qy 2348 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404
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 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA 2567
 Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2464
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627
 Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2628 GCCTAGATGCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687
 Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747
 Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807
 Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCCGAGGCTGAGTGCTGA 2697
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 15

US-10-218-779-3

; Sequence 3, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit
 ; APPLICANT: MacDougall, John
 ; APPLICANT: Millet, Isabelle
 ; APPLICANT: Ellerman, Karen
 ; APPLICANT: Stone, David
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Grosse, William
 ; APPLICANT: Alsobrook II, John
 ; APPLICANT: Lepley, Denise
 ; APPLICANT: Rieger, Daniel
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Casman, Stacie
 ; APPLICANT: Spytek, Kimberly
 ; APPLICANT: Boldog, Ferenc
 ; APPLICANT: Li, Li
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Mishra, Vishnu
 ; APPLICANT: Patturajan, Meera
 ; APPLICANT: Shenoy, Suresh
 ; APPLICANT: Rastelli, Luca
 ; APPLICANT: Tchernev, Velizar
 ; APPLICANT: Vernet, Corine
 ; APPLICANT: Zerhusen, Bryan
 ; APPLICANT: Malyankar, Uriel
 ; APPLICANT: Guo, Xiaojia
 ; APPLICANT: Miller, Charles

; APPLICANT: Gangolli, Esha
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 21402-214
 ; CURRENT APPLICATION NUMBER: US/10/218,779
 ; CURRENT FILING DATE: 2002-08-14
 ; PRIOR APPLICATION NUMBER: 60/253,834
 ; PRIOR FILING DATE: 2000-11-29
 ; PRIOR APPLICATION NUMBER: 60/250,-926
 ; PRIOR FILING DATE: 2000-11-30
 ; PRIOR APPLICATION NUMBER: 60/264,180
 ; PRIOR FILING DATE: 2001-01-25
 ; PRIOR APPLICATION NUMBER: 60/313,656
 ; PRIOR FILING DATE: 2001-08-20
 ; PRIOR APPLICATION NUMBER: 60/327,456
 ; PRIOR FILING DATE: 2001-10-05
 ; NUMBER OF SEQ ID NOS: 216
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 2860
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-218-779-3

Query Match 34.7%; Score 936.2; DB 17; Length 2860;
 Best Local Similarity 61.7%; Pred. No. 2.8e-232;
 Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      98 ACCCAGTGCCTGGTGCCAAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 157
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      158 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 217
      || || | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy      218 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 277
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy      278 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 337
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      348 TGGATGAGGCCACCGGCCTGCGGGTGC GCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG 407

Qy      338 TCGAGAAGGTGTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 397
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCAG 467

Qy      398 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 457
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527

Qy      458 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 517
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      528 AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG 587

Qy      518 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 577
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Db 588 CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA 647
 Qy 578 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC 637
 ||| ||| ||| | ||| || ||| || | || |||||
 Db 648 CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC 707
 Qy 638 TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCG 697
 | | ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 708 TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAACGCCGGAGCA 767
 Qy 698 CCTCCGCTGCTGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG 757
 || | || | ||||| ||||| || || |||| | || |||||
 Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827
 Qy 758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817
 |||| | | ||||| || ||||| || || |||| ||||| |||||
 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGACCCGGACCTGCACCAACCCCG 887
 Qy 818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA 877
 | || ||||| || || |||| |||| || ||||| || ||||| ||
 Db 888 CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947
 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 937
 || | ||||| || || || || ||||| ||||| |||| | |
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997
 | || ||||| ||||| ||||| || || |||| ||||| |||||
 Db 1008 AGTGTGCCCCTGAGCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067
 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1057
 | ||| || || || ||| || |||| || || || || || ||
 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127
 Qy 1058 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1117
 | || || || || || || || || || || || || || ||
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG 1187
 Qy 1118 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1177
 | || || || || || || || || || || || || || || ||
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247
 Qy 1178 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1234
 | | ||||| || || || || ||||| ||||| || || ||
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307
 Qy 1235 GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1288
 | | |||| || || || || || || || || || || || ||
 Db 1308 CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367
 Qy 1289 CCACCACCTACCAGGGCAGTCTCTGTCCCGGCAGGA----- 1325
 || || |||| || || || || |||||
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCATGA 1427
 Qy 1326 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1354
 ||||| || || || || || ||
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487

Qy 1355 --ATGGGACACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1402
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547

Qy 1403 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAACTACT 1462
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607

Qy 1463 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1507
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667

Qy 1508 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1567
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727

Qy 1568 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1627
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787

Qy 1628 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1687
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1788 GTACCCTGCCGCTTTTCAAGGGACCCAGACAGTATTGAGCCCCCTCGGTGACCTGTGGAC 1847

Qy 1688 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1747
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907

Qy 1748 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1807
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1908 GTGCCCGTGACTGGATCTTTAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967

Qy 1808 TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG 1867
 | | | | | | | | | | | | | | | | | | | | | |
 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027

Qy 1868 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2028 CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC 2087

Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG 2147

Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207

Qy 2048 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGG 2107
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267

Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167
 | | | | | | | | | | | | | | | | | | | | | |
 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCATTGGAGGAGCA 2327

Qy 2168 AGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227
 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387

Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTGGCCTGCA 2287
 Db 2388 CCCTCCACTGCACTTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447

Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCTAGCATCAACTTCAACATCA 2347
 Db 2448 AGATCTGCGTGCGGCAAGTGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507

Qy 2348 CCAAG---GACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404
 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTACCA 2567

Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2464
 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627

Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524
 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687

Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747

Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807

Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

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